



INDIA GLYCOLS LIMITED, LABORATORY

(NABL ACCREDITED LABORATORY)

(A unit of India Glycols Limited, an ISO: 9001, ISO: 14001, OHSAS: 18001, ISO: 22000, FSSC: 22000, SA: 8000, ISO: 50001 certified Company)

A-1, Industrial Area Bazpur Road, Kashipur
District - Udham Singh Nagar - 244713 (Uttarakhand)

Email: igllabksp@gmail.com

TEST REPORT

Test Report No. TR/AAQ/2018/09/11-001			Issue Date: 11.09.2018			
Issued to:	M/s India Glycols Limited A - 1, Industrial Area, Bazpur Road Kashipur - 244713, U. S. Nagar (Uttarakhand)					
Type of Sample:	Ambient Air					
Sampling Location:	Bio Gas Plant					
Date of Sampling:	04.09.2018 to 05.09.2018					
Mode of Collection of Sample:	Sampling by Laboratory					
Packing, Marking & Seal:	Fliter Paper in Plastic Envelop, Absorbing Solution in Reagent Bottle.					
Sampling Protocol:	IS: 5182 (P-14)					
Sample Drawn by:	Mr. Satveer Yadav & Team					
Date of Sample Receiving:	05.09.2018					
Time of Sampling:	24 Hrs (0900 Hrs to 0900 Hrs)					
Testing Protocol:	National Ambient Air Quality Standards (NAAQS) 2009					
Environmental Condition:	Partially Cloudy					
Analysis Duration:	05.09.2018 to 06.09.2018					
RESULTS						
S.No	Test Parameters	Units	Results	NAAQS		Test Method
1.	Particulate Matter (PM ₁₀)	µg/m ³	83.41	Annual*	60	IS:5182 (23) 2006
				24 Hours**	100	
2.	Sulphur Dioxide (SO ₂)	µg/m ³	14.69	Annual*	50	IS :5182 (2) 2001
				24 Hours**	80	
3.	Nitrogen Oxides (as NO ₂)	µg/m ³	31.94	Annual*	40	IS :5182 (6) 2006
				24 Hours**	80	
4.	Particulate Matter (PM _{2.5})	µg/m ³	42.02	Annual*	40	Lab STP/018-A
				24 Hours**	60	
5.	Ammonia	µg/m ³	10.72	Annual*	100	Lab STP/018-B
				24 Hours**	400	
6.	Ozone (8 Hours)	µg/m ³	12.79	8 Hours*	100	IS :5182 (IX)-1974 R 2003
				1 Hour**	180	
7.	Carbon Monoxide (as CO) (1Hour)	mg/m ³	ND	8 Hours*	02	Electrochemical Method
				1 Hour**	04	
8.	Lead (as Pb)	µg/m ³	< 0.1	Annual*	0.5	IS :5182 (P-22) 2004 & APHA
				24 Hours**	1.0	

Contd-2

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Email: igllabksp@gmail.com

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9.	Nickel (as Ni)	ng/m ³	2.22	Annual*	20	IS :5182 (P-23) 2004 & APHA
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* Annual Arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform interval.
**24 hourly 08 hourly or 1 hourly monitored values, as applicable shall be complied with 98% of the time in a year. 2% of the time, they may exceed the limits but not on two consecutive days of monitoring.
Parameter mentioned from S. No. 4 to 9 are not cover under our Scope.
ND- Not detected

End of Report


(Pradeep Pathak)
(Checked by)


(Authorized Signatory)
Dr. Chakrath Pathak

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TEST REPORT

Test Report No. TR/AAQ/2018/09/11-004		Issue Date: 11.09.2018
Issued to:	M/s India Glycols Limited A - 1 Industrial Area, Bazpur Road Kashipur - 244713, U. S. Nagar (Uttarakhand)	
Type of Sample:	Ambient Air	
Sampling Location:	Coal Yard	
Date of Sampling:	07.09.2018 to 08.09.2018	
Mode of Collection of Sample:	Sampling by Laboratory	
Packing, Marking & Seal:	Fliter Paper in Plastic Envelop, Absorbing Solution in Reagent Bottle.	
Sampling Protocol:	IS: 5182 (P-14)	
Sample Drawn by:	Mr. Satveer Yadav & Team	
Date of Sample Receiving:	08.09.2018	
Time of Sampling:	24 Hrs (1115 Hrs to 1115 Hrs)	
Testing Protocol:	National Ambient Air Quality Standards (NAAQS) 2009	
Environmental Condition:	Sunny Day	
Analysis Duration:	08.09.2018 to 09.09.2018	

RESULTS

S.No	Test Parameters	Units	Results	NAAQS		Test Method
				Annual*	24 Hours**	
1.	Particulate Matter (PM ₁₀)	µg/m ³	88.27	Annual*	60	IS:5182 (23) 2006
				24 Hours**	100	
2.	Sulphur Dioxide (SO ₂)	µg/m ³	14.84	Annual*	50	IS :5182 (2) 2001
				24 Hours**	80	
3.	Nitrogen Oxides (as NO ₂)	µg/m ³	32.67	Annual*	40	IS :5182 (6) 2006
				24 Hours**	80	
4.	Particulate Matter (PM _{2.5})	µg/m ³	43.21	Annual*	40	Lab STP/018-A
				24 Hours**	60	
5.	Ammonia	µg/m ³	12.18	Annual*	100	Lab STP/018-B
				24 Hours**	400	
6.	Ozone (8 Hours)	µg/m ³	14.65	8 Hours*	100	IS :5182 (IX)-1974 R 2003
				1 Hour**	180	
7.	Carbon Monoxide (as CO) (1Hour)	mg/m ³	ND	8 Hours*	02	Electrochemical Method
				1 Hour**	04	
8.	Lead (as Pb)	µg/m ³	< 1.0	Annual*	0.5	IS :5182 (P-22) 2004 & APHA
				24 Hours**	1.0	

Contd-2

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:2:

9.	Nickel (as Ni)	ng/m ³	4.44	Annual*	20	IS :5182 (P-23) 2004 & APHA
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* Annual Arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform interval.

**24 hourly 08 hourly or 1 hourly monitored values, as applicable shall be complied with 98% of the time in a year. 2% of the time, they may exceed the limits but not on two consecutive days of monitoring.

Parameter mentioned from S. No. 4 to 9 are not cover under our Scope.

ND- Not detected

End of Report


(Pradeep Pathak)
(Checked by)



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TEST REPORT

Test Report No. TR/AAQ/2018/09/11-003		Issue Date: 11.09.2018
Issued to:	M/s India Glycols Limited A - 1, Industrial Area, Bazpur Road Kashipur - 244713, U. S. Nagar (Uttarakhand)	
Type of Sample:	Ambient Air	
Sampling Location:	Fire Station	
Date of Sampling:	06.09.2018 to 07.09.2018	
Mode of Collection of Sample:	Sampling by Laboratory	
Packing, Marking & Seal:	Fliter Paper in Plastic Envelop, Absorbing Solution in Reagent Bottle.	
Sampling Protocol:	IS: 5182 (P-14)	
Sample Drawn by:	Mr. Satveer Yadav & Team	
Date of Sample Receiving:	07.09.2018	
Time of Sampling:	24 Hrs (1030 Hrs to 1030 Hrs)	
Testing Protocol:	National Ambient Air Quality Standards (NAAQS) 2009	
Environmental Condition:	Sunny Day	
Analysis Duration:	07.09.2018 to 08.09.2018	

RESULTS

S.No	Test Parameters	Units	Results	NAAQS		Test Method
1.	Particulate Matter (PM ₁₀)	µg/m ³	83.19	Annual*	60	IS:5182 (23) 2006
				24 Hours**	100	
2.	Sulphur Dioxide (SO ₂)	µg/m ³	11.78	Annual*	50	IS :5182 (2) 2001
				24 Hours**	80	
3.	Nitrogen Oxides (as NO ₂)	µg/m ³	25.89	Annual*	40	IS :5182 (6) 2006
				24 Hours**	80	
4.	Particulate Matter (PM _{2.5})	µg/m ³	44.14	Annual*	40	Lab STP/018-A
				24 Hours**	60	
5.	Ammonia	µg/m ³	10.72	Annual*	100	Lab STP/018-B
				24 Hours**	400	
6.	Ozone (8 Hours)	µg/m ³	12.62	8 Hours*	100	IS :5182 (IX)-1974 R 2003
				1 Hour**	180	
7.	Carbon Monoxide (as CO) (1Hour)	mg/m ³	ND	8 Hours*	02	Electrochemical Method
				1 Hour**	04	
8.	Lead (as Pb)	µg/m ³	< 1.0	Annual*	0.5	IS :5182 (P-22) 2004 & APHA
				24 Hours**	1.0	

Contd-2

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:2:

9.	Nickel (as Ni)	ng/m ³	2.77	Annual*	20	IS :5182 (P-23) 2004 & APHA
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* Annual Arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform interval.

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Parameter mentioned from S. No. 4 to 9 are not cover under our Scope.

ND- Not detected

End of Report


(Pradeep Pathak)
(Checked by)



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Email: igllabksp@gmail.com

TEST REPORT

Test Report No. TR/AAQ/2018/09/11-005			Issue Date: 11.09.2018			
Issued to:	M/s India Glycols Limited A - ,1 Industrial Area, Bazpur Road Kashipur - 244713, U. S. Nagar (Uttarakhand)					
Type of Sample:	Ambient Air					
Sampling Location:	IGL Colony					
Date of Sampling:	08.09.2018 to 09.09.2018					
Mode of Collection of Sample:	Sampling by Laboratory					
Packing, Marking & Seal:	Fliter Paper in Plastic Envelop, Absorbing Solution in Reagent Bottle.					
Sampling Protocol:	IS: 5182 (P-14)					
Sample Drawn by:	Mr. Satveer Yadav & Team					
Date of Sample Receiving:	10.09.2018					
Time of Sampling:	24 Hrs (1130 Hrs to 1130 Hrs)					
Testing Protocol:	National Ambient Air Quality Standards (NAAQS) 2009					
Environmental Condition:	Sunny Day					
Analysis Duration:	10.09.2018 to 11.09.2018					
RESULTS						
S.No	Test Parameters	Units	Results	NAAQS		Test Method
1.	Particulate Matter (PM ₁₀)	µg/m ³	81.03	Annual*	60	IS:5182 (23) 2006
				24 Hours**	100	
2.	Sulphur Dioxide (SO ₂)	µg/m ³	8.43	Annual*	50	IS :5182 (2) 2001
				24 Hours**	80	
3.	Nitrogen Oxides (as NO ₂)	µg/m ³	26.86	Annual*	40	IS :5182 (6) 2006
				24 Hours**	80	
4.	Particulate Matter (PM _{2.5})	µg/m ³	37.45	Annual*	40	Lab STP/018-A
				24 Hours**	60	
5.	Ammonia	µg/m ³	< 10.0	Annual*	100	Lab STP/018-B
				24 Hours**	400	
6.	Ozone (8 Hours)	µg/m ³	< 10.0	8 Hours*	100	IS :5182 (IX)-1974 R 2003
				1 Hour**	180	
7.	Carbon Monoxide (as CO) (1Hour)	mg/m ³	ND	8 Hours*	02	Electrochemical Method
				1 Hour**	04	
8.	Lead (as Pb)	µg/m ³	< 1.0	Annual*	0.5	IS :5182 (P-22) 2004 & APHA
				24 Hours**	1.0	

Contd—2

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:2:

9.	Nickel (as Ni)	ng/m ³	1.11	Annual*	20	IS :5182 (P-23) 2004 & APHA
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ND- Not detected

End of Report


(Pradeep Pathak)
(Checked by)


(Authorized Signatory)
Pradeep Pathak

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Email: igllabksp@gmail.com

TEST REPORT

Test Report No. TR/AAQ/2018/09/11-002		Issue Date: 11.09.2018
Issued to:	M/s India Glycols Limited A - 1, Industrial Area, Bazpur Road Kashipur - 244713, U. S. Nagar (Uttarakhand)	
Type of Sample:	Ambient Air	
Sampling Location:	Main Gate	
Date of Sampling:	05.09.2018 to 06.09.2018	
Mode of Collection of Sample:	Sampling by Laboratory	
Packing, Marking & Seal:	Fliter Paper in Plastic Envelop, Absorbing Solution in Reagent Bottle.	
Sampling Protocol:	IS: 5182 (P-14)	
Sample Drawn by:	Mr. Deepak Sati & Team	
Date of Sample Receiving:	06.09.2018	
Time of Sampling:	24 Hrs (0945 Hrs to 0945 Hrs)	
Testing Protocol:	National Ambient Air Quality Standards (NAAQS) 2009	
Environmental Condition:	Sunny Day	
Analysis Duration:	06.09.2018 to 07.09.2018	

RESULTS

S.No	Test Parameters	Units	Results	NAAQS		Test Method
				Annual*	24 Hours**	
1.	Particulate Matter (PM ₁₀)	µg/m ³	84.62	Annual*	60	IS:5182 (23) 2006
				24 Hours**	100	
2.	Sulphur Dioxide (SO ₂)	µg/m ³	11.41	Annual*	50	IS :5182 (2) 2001
				24 Hours**	80	
3.	Nitrogen Oxides (as NO ₂)	µg/m ³	23.71	Annual*	40	IS :5182 (6) 2006
				24 Hours**	80	
4.	Particulate Matter (PM _{2.5})	µg/m ³	41.54	Annual*	40	Lab STP/018-A
				24 Hours**	60	
5.	Ammonia	µg/m ³	10.48	Annual*	100	Lab STP/018-B
				24 Hours**	400	
6.	Ozone (8 Hours)	µg/m ³	11.88	8 Hours*	100	IS :5182 (IX)-1974 R 2003
				1 Hour**	180	
7.	Carbon Monoxide (as CO) (1Hour)	mg/m ³	ND	8 Hours*	02	Electrochemical Method
				1 Hour**	04	
8.	Lead (as Pb)	µg/m ³	< 1.0	Annual*	0.5	IS :5182 (P-22) 2004 & APHA
				24 Hours**	1.0	

Contd—2

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:2:

9.	Nickel (as Ni)	ng/m ³	1.67	Annual*	20	IS :5182 (P-23) 2004 & APHA
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ND- Not detected

End of Report


(Pradeep Pathak)
(Checked by)


(Authorized Signatory)
(Dr. Chak Vesh Pathak)

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TEST REPORT

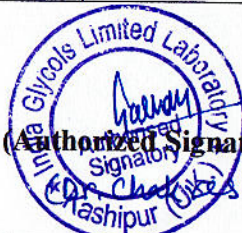
Test Report No: TR/SM/2018/09/11-007	:	Issued Date: 11.09.2018
Issued to	:	M/s India Glycols Limited A - 1 Industrial Area, Bazpur Road Kashipur - 244713 (Uttarakhand)
Sample Description	:	Stack Emission
Sampling Location	:	Stack of DG 1 & 2
Date of Sampling	:	07.09.2018
Capacity (TPH/ KVA/ Kg/Hr)	:	3.0 MW
Type of Stack (Metal/RCC/Brick)	:	Metal
Shape of Stack (Circular/Rectangular)	:	Circular
Diameter of Stack (Meter)	:	2
Height of Stack from Ground Level (M)	:	30.48
Type of Fuel used (HSD/FO/Coal etc.)	:	RFO/FO
Fuel consumed per Hour	:	610 Kg
Ambient Temperature (°C)	:	33
Stack Temperature (°C)	:	105
Average velocity of emission (m/sec)	:	8.59
Average Flow Rate (LPM)	:	13
Duration of Sampling (min.)	:	47 (1010 Hrs to 1057 Hrs)
Sampling Protocol	:	IS:11255
Sampling Packing & Marking	:	Sealed Zip Poly Bag & Plastic Bottle
Sample Drawn By	:	Mr. Satveer Yadav & Team
Environmental Condition	:	Clear Sky
Date of Receipt of Sample:	:	07.09.2018
Analysis Duration	:	07.09.2018 to 08.09.2018

RESULTS

S.No	Test Parameter	Unit	Results	Emission Limits	Test Method
1.	Particulate Matter (PM) @ 15% O ₂ correction	mg/Nm ³	56.65	150	IS: 11255 (P-1) 1985
2.	Sulphur Dioxide (SO ₂)	mg/Nm ³	48.34	--	IS: 11255 (P-2) 1985
3.	Nitrogen Oxides (as NO _x) 15% O ₂ correction	ppmv	32.10	1100	IS: 11255 (P-7) 2005


(Pradeep Pathak)
(Checked By)

End of Report


(Authorized Signatory)
Signature
Kashipur

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Email: igllabksp@gmail.com


TEST REPORT

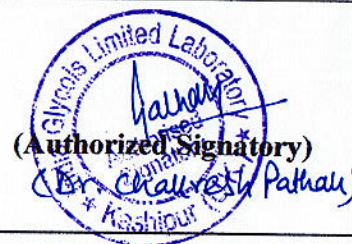
Test Report No: TR/SM/2018/09/11-008	:	Issued Date: 11.09.2018
Issued to	:	M/s India Glycols Limited A - 1 Industrial Area, Bazpur Road Kashipur - 244713, U. S. Nagar (Uttarakhand)
Sample Description	:	Stack Emission
Sampling Location	:	Stack of DG - 3
Date of Sampling	:	07.09.2018
Capacity (TPH/ KVA/ Kg/Hr)	:	4 MW
Type of Stack (Metal/RCC/Brick)	:	Metal
Shape of Stack (Circular/Rectangular)	:	Circular
Diameter of Stack (Meter)	:	1.5
Height of Stack from Ground Level (M)	:	46
Type of Fuel used (HSD/FO/Coal etc.)	:	RFO/FO
Fuel consumed per Hour	:	810 Kg
Ambient Temperature (°C)	:	34
Stack Temperature (°C)	:	116
Average velocity of emission (m/sec)	:	8.68
Average Flow Rate (LPM)	:	13
Duration of Sampling (min.)	:	47 (1110 Hrs to 1157 Hrs)
Sampling Protocol	:	IS:11255
Sampling Packing & Marking	:	Sealed Zip Poly Bag & Plastic Bottle
Sample Drawn By	:	Mr. Deepak Sati & Team
Environmental Condition	:	Clear Sky
Date of Receipt of Sample:	:	07.09.2018
Analysis Duration	:	07.09.2018 to 08.09.2018

RESULTS

S.No	Test Parameter	Unit	Results	Emission Limits	Test Method
1.	Particulate Matter (PM) @ 15% O ₂ correction	mg/Nm ³	44.73	150.0	IS: 11255 (P-1) 1985
2.	Sulphur Dioxide (SO ₂)	mg/Nm ³	49.09	--	IS: 11255 (P-2) 1985
3.	Nitrogen Oxides (as NO _x) 15% O ₂ correction	ppmv	66.82	1100	IS: 11255 (P-7) 2005

End of Report


(Pradeep Pathak)
(Checked By)



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District - Udham Singh Nagar - 244713 (Uttarakhand)
Email: igllabksp@gmail.com

TEST REPORT



Test Report No: TR/SM/2018/09/11-009	:	Issued Date: 11.09.2018
Issued to	:	M/s India Glycols Limited A - 1 Industrial Area, Bazpur Road Kashipur - 244713
Sample Description	:	Stack Emission
Sampling Location	:	Stack of DG - 4
Date of Sampling	:	07.09.2018
Capacity (TPH/ KVA/ Kg/Hr)	:	4 MW
Type of Stack (Metal/RCC/Brick)	:	Metal
Shape of Stack (Circular/Rectangular)	:	Circular
Diameter of Stack (Meter)	:	1.5
Height of Stack from Ground Level (M)	:	46
Type of Fuel used (HSD/FO/Coal etc.)	:	RFO/FO
Fuel consumed per Hour	:	810 Kg
Ambient Temperature (°C)	:	33
Stack Temperature (°C)	:	119
Average velocity of emission (m/sec)	:	8.94
Average Flow Rate (LPM)	:	13
Duration of Sampling (min.)	:	46 (1550 Hrs to 1636 Hrs)
Sampling Protocol	:	IS:11255
Sampling Packing & Marking	:	Sealed Zip Poly Bag & Plastic Bottle
Sample Drawn By	:	Mr. Satveer Yadav & Team
Environmental Condition	:	Partially Cloudy
Date of Receipt of Sample:	:	07.09.2018
Analysis Duration	:	07.09.2018 to 08.09.2018

RESULTS

S.No	Test Parameter	Unit	Results	Emission Limits	Test Method
1.	Particulate Matter (PM) @ 15% O ₂ correction	mg/Nm ³	50.63	150.0	IS: 11255 (P-1) 1985
2.	Sulphur Dioxide (SO ₂)	mg/Nm ³	48.72	--	IS: 11255 (P-2) 1985
3.	Nitrogen Oxides (as NO _x) 15% O ₂ correction	ppmv	65.64	1100	IS: 11255 (P-7) 2005


(Pradeep Pathak)
(Checked By)

End of Report


(Authorized Signatory)

Dr. Chakresh Pathak

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Email: igllabksp@gmail.com

TEST REPORT

Test Report No: TR/SM/2018/09/11-003	: Issued Date: 11.09.2018
Issued to	: M/s India Glycols Limited A - 1 Industrial Area, Bazpur Road Kashipur - 244713
Sample Description	: Stack Emission
Sampling Location	: Stack of CVL 20 T Boiler
Date of Sampling	: 05.09.2018
Capacity (TPH/ KVA/ Kg/Hr)	: 20 TPH
Type of Stack (Metal/RCC/Brick)	: Metal
Shape of Stack (Circular/Rectangular)	: Circular
Diameter of Stack (Meter)	: 1.47
Height of Stack from Ground Level (M)	: 45
Type of Fuel used (HSD/FO/Coal etc.)	: Coal
Fuel consumed per Hour	: --
Ambient Temperature (°C)	: 33
Stack Temperature (°C)	: 145
Average velocity of emission (m/sec)	: 10.86
Average Flow Rate (LPM)	: 15
Duration of Sampling (min.)	: 41 (1110 Hrs to 1151 Hrs)
Sampling Protocol	: IS:11255
Sampling Packing & Marking	: Sealed Zip Poly Bag & Plastic Bottle
Sample Drawn By	: Mr. Deepak Sati & Team
Environmental Condition	: Sunny Day
Date of Receipt of Sample:	: 05.09.2018
Analysis Duration	: 05.09.2018 to 06.09.2018

RESULTS

S.No	Test Parameter	Unit	Results	Emission Limits	Test Method
1.	Particulate Matter (PM) @ 12% CO ₂ correction	mg/Nm ³	104.63	150.0	IS: 11255 (P-1) 1985
2.	Sulphur Dioxide (SO ₂)	mg/Nm ³	48.61	--	IS: 11255 (P-2) 1985
3.	Nitrogen Oxides (as NO _x)	mg/Nm ³	52.83	--	IS: 11255 (P-7) 2005

End of Report


(Pradeep Pathak)
(Checked By)



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TEST REPORT


Test Report No: TR/SM/2018/09/11-004	: Issued Date: 11.09.2018
Issued to	: M/s India Glycols Limited A - 1 Industrial Area, Bazpur Road Kashipur - 244713, U.S. Nagar (Uttarakhand)
Sample Description	: Stack Emission
Sampling Location	: Stack of CVL 30 T Boiler
Date of Sampling	: 05.09.2018
Capacity (TPH/ KVA/ Kg/Hr)	: 30 TPH
Type of Stack (Metal/RCC/Brick)	: Metal
Shape of Stack (Circular/Rectangular)	: Circular
Diameter of Stack (Meter)	: 3
Height of Stack from Ground Level (M)	: 45
Type of Fuel used (HSD/FO/Coal etc.)	: Coal
Fuel consumed per Hour	: --
Ambient Temperature (°C)	: 34
Stack Temperature (°C)	: 114
Average velocity of emission (m/sec)	: 10.16
Average Flow Rate (LPM)	: 15
Duration of Sampling (min.)	: 40 (1510 Hrs to 1550 Hrs)
Sampling Protocol	: IS:11255
Sampling Packing & Marking	: Sealed Zip Poly Bag & Plastic Bottle
Sample Drawn By	: Mr. Deepak Sati & Team
Environmental Condition	: Sunny Day
Date of Receipt of Sample:	: 05.09.2018
Analysis Duration	: 05.09.2018 to 06.09.2018

RESULTS

S.No	Test Parameter	Unit	Results	Emission Limits	Test Method
1.	Particulate Matter (PM)@ 12 % CO ₂ Correction	mg/Nm ³	103.43	150.0	IS: 11255 (P-1) 1985
2.	Sulphur Dioxide (SO ₂)	mg/Nm ³	41.64	--	IS: 11255 (P-2) 1985
3.	Nitrogen Oxides (as NO _x)	mg/Nm ³	54.73	--	IS: 11255 (P-7) 2005

End of Report


(Pradeep Pathak)
(Checked By)


(Authorized Signatory)
(Dr. Chaitresh Pathak)

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TEST REPORT

Test Report No: TR/SM/2018/09/11-001	:	Issued Date: 11.09.2018
Issued to	:	M/s India Glycols Limited A - 1 Industrial Area, Bazpur Road Kashipur - 244713
Sample Description	:	Stack Emission
Sampling Location	:	IJT - 2
Date of Sampling	:	04.09.2018
Capacity (TPH/ KVA/ Kg/Hr)	:	--
Type of Stack (Metal/RCC/Brick)	:	RCC
Shape of Stack (Circular/Rectangular)	:	Circular
Diameter of Stack (Meter)	:	1.5
Height of Stack from Ground Level (M)	:	45
Type of Fuel used (HSD/FO/Coal etc.)	:	Coal
Fuel consumed per Hour	:	--
Ambient Temperature (°C)	:	32
Stack Temperature (°C)	:	112
Average velocity of emission (m/sec)	:	10.53
Average Flow Rate (LPM)	:	15
Duration of Sampling (min.)	:	39 (1030 Hrs to 1119 Hrs)
Sampling Protocol	:	IS:11255
Sampling Packing & Marking	:	Sealed Zip Poly Bag & Plastic Bottle
Sample Drawn By	:	Mr. Deepak Sati & Team
Environmental Condition	:	Partially Cloudy
Date of Receipt of Sample:	:	04.09.2018
Analysis Duration	:	04.09.2018 to 05.09.2018

RESULTS

S.No	Test Parameter	Unit	Results	Emission Limits	Test Method
1.	Particulate Matter (PM) @ 12% CO ₂ Correction	mg/Nm ³	132.44	150.0	IS: 11255 (P-1) 1985
2.	Sulphur Dioxide (SO ₂)	mg/Nm ³	49.0	NA	IS: 11255 (P-2) 1985
3.	Nitrogen Oxides (as NO _x)	mg/Nm ³	52.64	NA	IS: 11255 (P-7) 2005

End of Report


(Pradeep Pathak)
(Checked By)


(Authorized Signatory)
(Dr. Chaitresh Pathak)

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Email: igllabksp@gmail.com


TEST REPORT

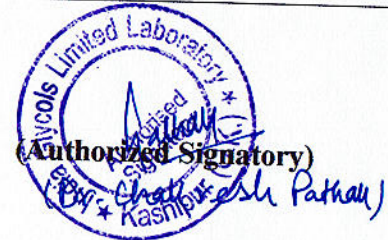
Test Report No: TR/SM/2018/09/11-002	:	Issued Date: 11.09.2018
Issued to	:	M/s India Glycols Limited A-1, Industrial Area, Bazpur Road Kashipur - 244713, U.S. Nagar
Sample Description	:	Stack Emission
Sampling Location	:	Slop Boiler-1
Date of Sampling	:	04.09.2018
Capacity (TPH/ KVA/ Kg/Hr)	:	52.5 TPH
Type of Stack (Metal/RCC/Brick)	:	RCC
Shape of Stack (Circular/Rectangular)	:	Circular
Diameter of Stack (Meter)	:	2.5
Height of Stack from Ground Level (M)	:	81
Type of Fuel used (HSD/FO/Coal etc.)	:	Coal + Slop
Fuel consumed per Hour	:	3 + 7
Ambient Temperature (°C)	:	33
Stack Temperature (°C)	:	110
Average velocity of emission (m/sec)	:	9.52
Average Flow Rate (LPM)	:	14
Duration of Sampling (min.)	:	43 (1530 Hrs to 1613 Hrs)
Sampling Protocol	:	IS: 11255
Sampling Packing & Marking	:	Sealed Zip Poly bag & Plastic bottles
Sample Drawn By	:	Mr. Deepak Sati
Environmental Condition	:	Partially Cloudy
Date of Receipt of Sample:	:	04.09.2018
Analysis Duration	:	05.09.2018 to 06.09.2018

RESULTS

S. No	Test Parameter	Unit	Results	Test Method
1.	Particulate Matter (PM)@ 12% CO ₂ correction	mg/Nm ³	112.17	IS: 11255 (P-1) 1985
2.	Sulphur Dioxide (SO ₂)	mg/Nm ³	45.68	IS: 11255 (P-2) 1985
3.	Nitrogen Oxides (as NO _x)	mg/Nm ³	51.32	IS: 11255 (P-7) 2005

End of Report


(Pradeep Pathak)
(Checked By)



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TEST REPORT


Test Report No: TR/SM/2018/09/11-005	: Issued Date: 11.09.2018
Issued to	: M/s India Glycols Limited A-1, Industrial Area, Bazpur Road Kashipur - 244713, U.S. Nagar (Uttarakhand)
Sample Description	: Stack Emission
Sampling Location	: Slop Boiler 2
Date of Sampling	: 06.09.2018
Capacity (TPH/ KVA/ Kg/Hr)	: 52.5 TPH
Type of Stack (Metal/RCC/Brick)	: Metal
Shape of Stack (Circular/Rectangular)	: Circular
Diameter of Stack (Meter)	: 2.5
Height of Stack from Ground Level (M)	: 81
Type of Fuel used (HSD/FO/Coal etc.)	: Coal+ Slop
Fuel consumed per Hour	: --
Ambient Temperature (°C)	: 34.5
Stack Temperature (°C)	: 118
Average velocity of emission (m/sec)	: 9.87
Average Flow Rate (LPM)	: 14
Duration of Sampling (min.)	: 42 (1015 Hrs. to 1057 Hrs.)
Sampling Protocol	: IS:11255
Sampling Packing & Marking	: Sealed Zip Poly Bag
Sample Drawn By	: Deepak Sati & Team
Environmental Condition	: Sunny day
Date of Receipt of Sample:	: 06.09.2018
Analysis Duration	: 06.09.2018 to 07.09.2018

RESULTS

S.No	Test Parameter	Unit	Results	Limits	Test Method
1.	Particulate Matter (PM) @ 12% CO ₂ correction	mg/Nm ³	116.75	150.0	IS: 11255 (P-1) 1985
2.	Sulphur Dioxide (SO ₂)	mg/Nm ³	42.12	NA	IS: 11255 (P-2) 1985
3.	Nitrogen Oxides (as NO _x)	mg/Nm ³	57.86	NA	IS: 11255 (P-7) 2005

End of Report


(Pradeep Pathak)
(Checked By)


(Authorized Signatory)
Pradeep Pathak

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Email: igllabksp@gmail.com


TEST REPORT

Test Report No: TR/SM/2018/09/11-006	:	Issued Date: 11.09.2018
Issued to	:	M/s India Glycols Limited A - 1 Industrial Area, Bazpur Road Kashipur - 244713, Udham Singh Nagar (Uttarakhand)
Sample Description	:	Stack Emission
Sampling Location	:	TBW Boiler
Date of Sampling	:	06.09.2018
Capacity (TPH/ KVA/ Kg/Hr)	:	--
Type of Stack (Metal/RCC/Brick)	:	Metal
Shape of Stack (Circular/Rectangular)	:	Circular
Diameter of Stack (Meter)	:	1.5
Height of Stack from Ground Level (M)	:	68
Type of Fuel used (HSD/FO/Coal etc.)	:	Coal
Fuel consumed per Hour	:	--
Ambient Temperature (°C)	:	35
Stack Temperature (°C)	:	126
Average velocity of emission (m/sec)	:	9.47
Average Flow Rate (LPM)	:	13
Duration of Sampling (min.)	:	45 (1510 Hrs to 1555 Hrs)
Sampling Protocol	:	IS:11255
Sampling Packing & Marking	:	Sealed Zip Poly Bag & Plastic Bottle
Sample Drawn By	:	Mr. Deepak Sati & Team
Environmental Condition	:	Sunny day
Date of Receipt of Sample:	:	06.09.2018
Analysis Duration	:	06.09.2018 to 07.09.2018

RESULTS

S.No	Test Parameter	Unit	Results	Limits	Test Method
1.	Particulate Matter (PM) @ 12% CO ₂ Correction	mg/Nm ³	99.55	150.0	IS: 11255 (P-1) 1985
2.	Sulphur Dioxide (SO ₂)	mg/Nm ³	46.99	NA	IS: 11255 (P-2) 1985
3.	Nitrogen Oxides (as NO _x)	mg/Nm ³	58.60	NA	IS: 11255 (P-7) 2005

End of Report


(Pradeep Pathak)
(Checked By)


(Authorized Signatory)
Dr. Chakresh Pathak

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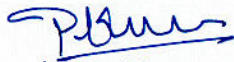
TEST REPORT



Test Report No: TR/SM/2018/09/11-010	:	Issued Date: 11.09.2018
Issued to	:	M/s India Glycols Limited A-1, Industrial Area, Bazpur Road Kashipur - 244713, U.S. Nagar (Uttarakhand)
Sample Description	:	Stack Emission
Sampling Location	:	MEG Heater (B-110)
Date of Sampling	:	06.09.2018
Capacity (TPH/ KVA/ Kg/Hr)	:	--
Type of Stack (Metal/RCC/Brick)	:	Metal
Shape of Stack (Circular/Rectangular)	:	Circular
Diameter of Stack (Meter)	:	0.838
Height of Stack from Ground Level (M)	:	30
Type of Fuel used (HSD/FO/Coal etc.)	:	FO + Biogas
Fuel consumed per Hour	:	0.25 + 200
Ambient Temperature (°C)	:	31
Stack Temperature (°C)	:	106
Average velocity of emission (m/sec)	:	8.78
Average Flow Rate (LPM)	:	13
Duration of Sampling (min.)	:	46 (1030 Hrs to 1116 Hrs)
Sampling Protocol	:	IS: 11255
Sampling Packing & Marking	:	Sealed Zip Poly bag & Plastic bottles
Sample Drawn By	:	Mr. Satveer Yadav & Team
Environmental Condition	:	Sunny Day
Date of Receipt of Sample:	:	08.09.2018
Analysis Duration	:	08.09.2018 to 10.09.2018

RESULTS

S.No	Test Parameter	Unit	Results	Limits	Test Method
1.	Particulate Matter (PM)	mg/Nm ³	66.67	150	IS: 11255 (P-1) 1985
2.	Sulphur Dioxide (SO ₂)	mg/Nm ³	38.39	NA	IS: 11255 (P-2) 1985
3.	Nitrogen Oxides (as NO _x)	mg/Nm ³	59.37	NA	IS: 11255 (P-7) 2005

End of Report


(Pradeep Pathak)
(Checked By)


(Authorized Signatory)
C.D. Chakresh Pathak


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Email: igllabksp@gmail.com

TEST REPORT

Test Report No: TR/SM/2018/09/11-011	:	Issued Date: 11.09.2018
Issued to	:	M/s India Glycols Limited A-1, Industrial Area, Bazpur Road Kashipur - 244713, U.S. Nagar
Sample Description	:	Stack Emission
Sampling Location	:	MEG Heater (B-110A)
Date of Sampling	:	08.09.2018
Capacity (TPH/ KVA/ Kg/Hr)	:	--
Type of Stack (Metal/RCC/Brick)	:	Metal
Shape of Stack (Circular/Rectangular)	:	Circular
Diameter of Stack (Meter)	:	0.850
Height of Stack from Ground Level (M)	:	51
Type of Fuel used (HSD/FO/Coal etc.)	:	FO + Biogas
Fuel consumed per Hour	:	0.25 + 200
Ambient Temperature (°C)	:	32
Stack Temperature (°C)	:	106
Average velocity of emission (m/sec)	:	9.31
Average Flow Rate (LPM)	:	14
Duration of Sampling (min.)	:	43 (1540 Hrs to 1623 Hrs)
Sampling Protocol	:	IS: 11255
Sampling Packing & Marking	:	Sealed Zip Poly bag & Plastic bottles
Sample Drawn By	:	Mr. Deepak Sati
Environmental Condition	:	Sunny Day
Date of Receipt of Sample:	:	08.09.2018
Analysis Duration	:	08.09.2018 to 10.09.2018

RESULTS

S.No	Test Parameter	Unit	Results	Limits	Test Method
1.	Particulate Matter (PM)	mg/Nm ³	78.04	150	IS: 11255 (P-1) 1985
2.	Sulphur Dioxide (SO ₂)	mg/Nm ³	34.99	NA	IS: 11255 (P-2) 1985
3.	Nitrogen Oxides (as NO _x)	mg/Nm ³	63.82	NA	IS: 11255 (P-7) 2005

End of Report


(Pradeep Pathak)
(Checked By)


(Authorized Signatory)
(Dr. Chakresh Pathak)

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INDIA GLYCOLS LIMITED, LABORATORY

(A unit of India Glycols Limited, an ISO: 9001, ISO: 14001, OHSAS: 18001, ISO: 22000, FSSCI: 22000, SA: 8000, ISO: 50001 certified Company)

A-1, Industrial Area Bazpur Road, Kashipur
District - Udham Singh Nagar - 244713 (Uttarakhand)

Email: igllabksp@gmail.com

TEST REPORT

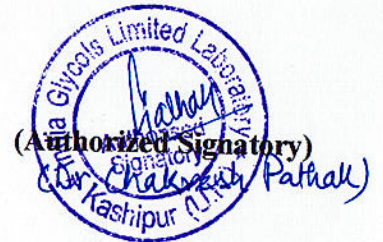
Test Report No. GNTR/AAQ/2018/09/11-001		Issue Date: 11.09.2018			
Issued to:	M/s India Glycols Limited A - ,1 Industrial Area, Bazpur Road Kashipur - 244713, U. S. Nagar (Uttarakhand)				
Type of Sample:	Work zone Air				
Sampling Location:	Chemical Plant Section				
Date of Sampling:	05.09.2018				
Mode of Collection of Sample:	Sampling by Laboratory				
Packing, Marking & Seal:	Envelop marked as "CP-1" & Absorbing Solution in Reagent Bottle Mark "CP-1"				
Sample Drawn by:	Mr. Satveer Yadav & Team				
Date of Sample Receiving:	05.09.2018				
Time of Sampling:	8 Hrs. (0900 Hrs to 1700 Hrs)				
Environmental Condition:	Sunny Day				
Analysis Duration:	07.02.2018 to 08.02.2018				
RESULTS					
S.No	Test Parameters	Units	Results	Permissible Limits (Factories Act 1948)	Test Method
1.	Suspended Particulate Matter	mg/m ³	0.212	10	IS :5182 (P-4)
2.	Sulphur Dioxide (SO ₂)	mg/m ³	0.018	5.0	IS :5182 (P-2)
3.	Nitrogen Oxides (as NO ₂)	mg/m ³	0.033	6.0	IS :5182 (P-6)
4.	Carbon Monoxide (CO) [#]	mg/m ³	ND	55.0	Electrochemical Method
5.	Lead (as Pb)	mg/m ³	ND	0.15	IS :5182 (P-22)

ND- Not Detected

End of Report

(Checked by)

(Pradeep Pathak)



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Email: igllabksp@gmail.com

TEST REPORT

Report Code : TR/WW/2018/09/11-001		Issue Date: 11.09.2018			
Issued to:		M/s India Glycols Limited A - 1 Industrial Area, Bazpur Road Kashipur - 244713			
Type of Sample:		Waste Water			
Sampling Location:		MEG Plant Outlet			
Sample Quantity:		2 Liter + 1 Liter			
Date of Sampling:		05.09.2018			
Sampling Protocol:		IS:3025 (P-1)			
Sample Packaging & Marking:		HDPE Carboy Marked "1" & Glass Bottle			
Sample Drawn by:		Mr. Deepak Sati & Team			
Environmental Condition:		Sunny Day			
Date of Receipt of Sample:		05.09.2018			
Analysis of Duration:		05.09.2018 to 08.09.2018			
S.No	Test Parameters	Units	Results	Limits	Test Method
A Physical Parameters					
1	pH Value	-	7.36	5.5 to 9.0	IS: 3025(P-11) 1983 R-2002
2	Temperature	°C	31	--	IS: 3025 (P-9)
3	Colour	--	Colorless	NA	IS: 3025(P-4)1983 R-2002
4	Odour*	--	Odorless	NA	IS: 3025(P-5)1983 R-2002
5	Total Suspended Solids	mg/l	50	100	IS: 3025(P-17) 1984 R-2002
B Chemical Parameters					
6	Chemical Oxygen Demand (COD)	mg/l	110	250	IS: 3025 (P-58) 2006
7	Biochemical Oxygen Demand (BOD)@ 27°C for 3 Days	mg/l	20	30	IS: 3025 (P-44) 1993
8	Oil & Grease*	mg/l	< 4	10	IS: 3025(P-39)
9	Dissolved Phosphate*	mg/l	1.88	5.0	IS: 3025 (P-44) 1993
10	Sulphide*	mg/l	< 1.0	2.0	IS: 3025 (P-58) 2006
11	Iron (as Fe)*	mg/l	0.61	3.0	IS: 3025 (P-44) 1993
12	Zinc (as Zn)*	mg/l	0.96	5.0	IS: 3025 (P-58) 2006
13	Copper (as Cu) *	mg/l	0.032	3.0	IS: 3025 (P-44) 1993
14	Cadmium (as Cd)*	mg/l	ND	2.0	IS: 3025 (P-58) 2006
15	Lead (as Pb)*	mg/l	ND	0.1	IS: 3025 (P-44) 1993
16	Nickel (as Ni)*	mg/l	ND	3.0	IS: 3025 (P-58) 2006

*Marked Parameters is not in our NABL Scope. ND- Not Detected

End of Report

(Checked By)
(Pradeep Pathak)



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Email: igllabksp@gmail.com

TEST REPORT

Report Code : TR/WW/2018/09/11-002		Issue Date: 11.09.2018			
Issued to:		M/s India Glycols Limited A - 1 Industrial Area, Bazpur Road Kashipur - 244713			
Type of Sample:		Waste Water			
Sampling Location:		Bottling Plant Effluent			
Sample Quantity:		2 Liter			
Date of Sampling:		05.09.2018			
Sampling Protocol:		IS:3025 (P-1)			
Sample Packaging & Marking:		HDPE Carboy Marked "1"			
Sample Drawn by:		Mr. Deepak Sati & Team			
Environmental Condition:		Sunny Day			
Date of Receipt of Sample:		05.09.2018			
Analysis of Duration:		05.09.2018 to 08.09.2018			
S.No	Test Parameters	Units	Results	Limits	Test Method
A Physical Parameters					
1.	pH Value	-	7.2	5.5 to 9.0	IS: 3025(P-11) 1983 R-2002
2.	Total Suspended Solids	mg/l	40	100	IS: 3025(P-17) 1984 R-2002
B Chemical Parameters					
3.	Chemical Oxygen Demand (COD)	mg/l	110	250	IS: 3025 (P-58) 2006
4.	Biochemical Oxygen Demand (BOD)@ 27°C for 3 Days	mg/l	15	30	IS: 3025 (P-44) 1993
5.	Oil & Grease*	mg/l	< 4	10	IS: 3025(P-39)

*Marked Parameters is not in our NABL. Scope.

End of Report


(Pradeep Pathak)
(Checked By)



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Email: igllabksp@gmail.com

TEST REPORT

Report Code : TR/GW/2018/09/10-001			Issue Date: 10.09.2018			
Issued to:		M/s. India Glycols Limited A-1, Industrial Area, Bazpur Ropad Kashipur – 244713, U.S.Naga, (Uttarakhand)				
Type of Sample:		Ground Water				
Sampling Location:		Bore-well				
Sample Quantity:		2 Ltr.				
Date of Sampling:		05.09.2018				
Sampling Protocol:		IS: 3025 (P-1)				
Sample Packaging & Marking:		Plastic bottle marked "T-1".				
Sample Drawn by:		Mr. Deepak Sati & Team				
Environmental Condition:		Sunny day				
Date of Receipt of Sample:		05.09.2018				
Analysis of Duration:		05.09.2018 to 08.09.2018				
S.No	Test Parameters	Units	Results	Specification (IS:10500- 2012)		Test Method
				Acceptable Limit	Permissible Limit	
A	Physical Parameters					
1	pH value	--	7.06	6.5 to 8.5	No relaxation	IS: 3025(P-11) 1983 R-2002
2	Colour	Hazen	<5.0	Max 5	Max 15	IS: 3025(P-4)1983 R-2002
3	Turbidity	NTU	<1.0	Max 1	Max 5	IS: 3025 (P- 10) 1984 R-2002
4	Total Dissolved Solids	mg/l	343.8	Max 500	Max 2000	IS: 3025 (P-16): 1984
B	Chemical Parameters					
5	Total Hardness (as CaCO ₃)	mg/l	244.0	Max 200	Max 600	IS: 3025(P-21) 1983R2002
6	Chlorides (as Cl)	mg/l	42.6	Max 250	Max 1000	IS: 3025 (P-32): 1988
7	Calcium (as Ca)	mg/l	56.0	Max. 75	Max. 200	IS:3025 (P-40) : 1991
8	Magnesium (as Mg)	mg/l	24.96	Max. 30	Max. 100	IS:3025 (P-46) : 1994
9	Sulphate (as SO ₄)	mg/l	48.0	Max 200	Max 400	IS: 3025 (P-24)1986, R 2003
10	Total Alkalinity	mg/l	172.8	Max 200	Max 600	IS:3025 (P-23) 1986, R 2003

End of Report


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TEST REPORT

Report Code : TR/GW/2018/09/10-001		Issue Date: 10.09.2018		
Issued to:		M/s. India Glycols Limited A-1, Industrial Area, Bazpur Ropad Kashipur - 244713, U.S.Nagar (Uttarakhand)		
Type of Sample:		Ground Water		
Sampling Location:		Bore-well		
Sample Quantity:		2 x 200 ml		
Date of Sampling:		05.09.2018		
Sampling Protocol:		IS : 1622 - 1981; RA 2009		
Sample Packaging & Marking:		Sterilized Glass Bottle Marked as "T-1".		
Sample Drawn by:		Mr. Deepak Sati & Team		
Environmental Condition:		Sunny day		
Date of Receipt of Sample:		05.09.2018		
Analysis of Duration:		05.09.2018 to 07.09.2018		
Microbiological Parameters				
S. No.	Test Parameters	Units	Results	Test Method
1	Total coliform	MPN/100ml	< 2	IS : 1622 - 1981; RA 2009
2	E. coli	MPN/100ml	< 2	IS : 1622 - 1981, RA 2009

Note: The above test results <2 MPN/100 ml is below detection limit i.e. (Absent/100 ml). So the Test sample is comply/pass as per specification IS - 10500:2012

End of Report


(Checked by)


(Authorized Signatory)

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